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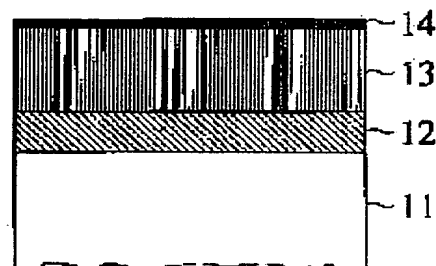
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(54) PERPENDICULAR MAGNETIC RECORDING MEDIUM AND MAGNETIC RECORDER

(57)Abstract:

PURPOSE: To provide a medium excellent in crystal orienting property and having high perpendicular magnetic anisotropy by forming an under film with a Co-Ru alloy.

CONSTITUTION: A Co-Ru alloy forms a solid soln. over the entire compsn. range at ordinary temp. and the crystal structure is a hexagonal close-packed structure. An under film 12 of the Co-Ru alloy is formed on a nonmagnetic substrate 11 such as a glass substrate or an NiP coated Al alloy substrate. In the film 12, (0001) faces become parallel to the substrate and c-axes are liable to orient perpendicularly. A perpendicularly magnetized film 13 of a Co-based alloy and a protective film 14 are then formed on the film 12 to obtain the objective perpendicular magnetic recording medium. The proper concn. of Ru is $\geq 40\text{at.}\%$ because a compsn. having $\geq 40\text{at.}\%$ concn. of Ru gives $\leq 0^\circ$ C Curie temp.



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